

PATENT COOPERATION TREATY

PCT

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01 JUL 2005

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CFO18212WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2004/004348	International filing date (day/month/year) 26/03/2004	(Earliest) Priority Date (day/month/year) 25/06/2003
Applicant CANON KABUSHIKI KAISHA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 6

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

An HF signal control device comprising a transmitter and a receiver and a radiating structure that allows variably changing the degree of coupling of the transmitted and received signals.

2. claims: 13-24

A generator for generating a high frequency electrical signal from a laser beam.

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G01S7/03 H01Q3/26 G02F2/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01S G01V G01N G02F G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 852 409 A (MURATA MANUFACTURING CO) 8 July 1998 (1998-07-08) column 2, line 54 - column 3, line 14 column 6, line 43 - line 56; figure 5 column 7, line 54 - line 56 column 10, line 1 - line 21; figure 14 column 11, line 29 - line 34	1-4, 6-8, 10, 12
Y		5, 9, 11
Y	US 2001/049266 A1 (HAYATA KAZUKI ET AL) 6 December 2001 (2001-12-06) paragraph '0174!; figure 7 ----- -/--	5

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

26 October 2004

Date of mailing of the international search report

05. 11. 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	EP 0 828 143 A (LUCENT TECHNOLOGIES INC) 11 March 1998 (1998-03-11) column 1, line 56 - column 2, line 20 column 2, line 21 - column 3, line 1 column 5, line 28 - line 53; figure 1 column 6, line 9 - line 45; figure 2 column 6, line 55 - column 7, line 15 -----	9,11 13-16, 18-24
X	US 6 388 799 B1 (ARNONE DONALD DOMINIC ET AL) 14 May 2002 (2002-05-14) column 6, line 1 - line 8 column 6, line 53 - line 67 column 15, line 40 - line 55; figures 10,11 column 16, line 31 - line 59; figures 12,13 -----	13,14, 16-18, 22,23
Y		15,19, 20,24
Y	NUSS M C: "CHEMISTRY IS RIGHT FOR T-RAY IMAGING LASER, MICROWAVE, AND SIGNAL PROCESSING TECHNOLOGIES A PERFECT BLEND FOR APPLICATIONS IN PACKAGING, SECURITY, AND QUALITY CONTROL" IEEE CIRCUITS AND DEVICES MAGAZINE, IEEE INC. NEW YORK, US, vol. 12, no. 2, 1 March 1996 (1996-03-01), pages 25-30, XP000589127 ISSN: 8755-3996 page 26, left-hand column, line 7 - right-hand column, line 21; figure 2 -----	15,19, 20,24
A	GB 2 371 618 A (TERAPROBE LTD ; TERAVIEW LTD (GB)) 31 July 2002 (2002-07-31) page 24, line 7 - line 27; figure 11 -----	11,13-24

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			WO 02061398 A2	08-08-2002
			JP 2004522151 T	22-07-2004
			US 2004095147 A1	20-05-2004